

Hybrid Phthalocyanine Derivatives And Their UsesABSTRACT OF THE DISCLOSURE

5 Water soluble hybrid phthalocyanine derivatives
useful in competitive and noncompetitive assays immunoassays,
nucleic acid and assays are disclosed and claimed having (1)
at least one donor subunit with a desired excitation peak;
and (2) at least one acceptor subunit with a desired emission
10 peak, wherein said derivative(s) is/are capable of
intramolecular energy transfer from said donor subunit to
said acceptor subunit. Such derivatives also may contain an
electron transfer subunit. Axial ligands may be covalently
bound to the metals contained in the water soluble hybrid
15 phthalocyanine derivatives. Ligands, ligand analogues,
polypeptides, proteins and nucleic acids can be linked to the
axial ligands of the dyes to form dye conjugates useful in
immunoassays and nucleic acid assays.